



TECHNICAL DATA SHEET

Reno NC 908 is a tabular alumina based no cement castable with chrome oxide addition.

- Recommended for use in ductile iron contact and in high wear areas.
- Very successful installations in steel tundish slag lines.
- Also recommended for other metal transfer shapes and other extreme applications such as carbon black furnaces.

SERVICE TEMPERATURE: 3200°F
 STORAGE LIFE: 6 months
 BINDER TYPE: Colloidal Silica
 BINDER ADDITION: 8.5-9.0% by weight

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	Cr ₂ O ₃	CaO	Other
89	6.6	0.1	7.6	0.3	0.2

TYPICAL PHYSICAL PROPERTIES

Prefire Temperature (°F)	Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)	Permeability (mdarcy)	Thermal K (Btu/in/ft ² /hr)
250	353	2234	187.1	10.2	-0.30	26.7	15.9
750	1135	5,978	187.7	14.9	-0.18	21.8	16.6
1500	2,430	15,800	188.0	16.3	0.00	17.3	17.2
2000	4,493	12,831	189.4	15.6	-0.11	10.4	18.0
2500	4,425	18,330	189.2	14.4	-0.80	15.9	18.6
2800	4597	16,039	189.4	13.8	-0.44	16.5	19.1

Thermal Expansion Coefficient 3.23E-6 in/in/F (ASTM C832)
 Thermal Cycle Loss (2000°F): 50% (ASTM C1171)

Hot MOR @ 2500°F: 1374 psi (ASTM C583)
 Hot MOR @ 2750°F: 451 psi (ASTM C583)

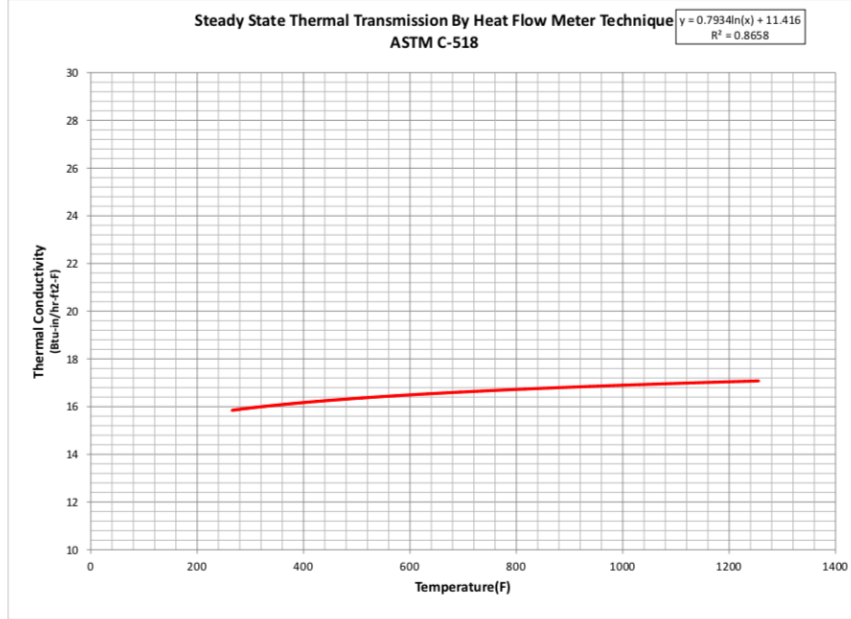
Abrasion Loss After 2500°F: 2.2 cc (ASTM C704)
 Abrasion Loss After 2800°F: 2.2 cc (ASTM C704)

The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specification purposes.

SUPPLIER: Reno
SAMPLE: 19-104 B

RENO REFRACTORIES, INC.
THERMAL ANALYSIS

FIRING HISTORY: 1500F
COMMENTS:



OPERATOR: THP
DATE: 8/29/2019

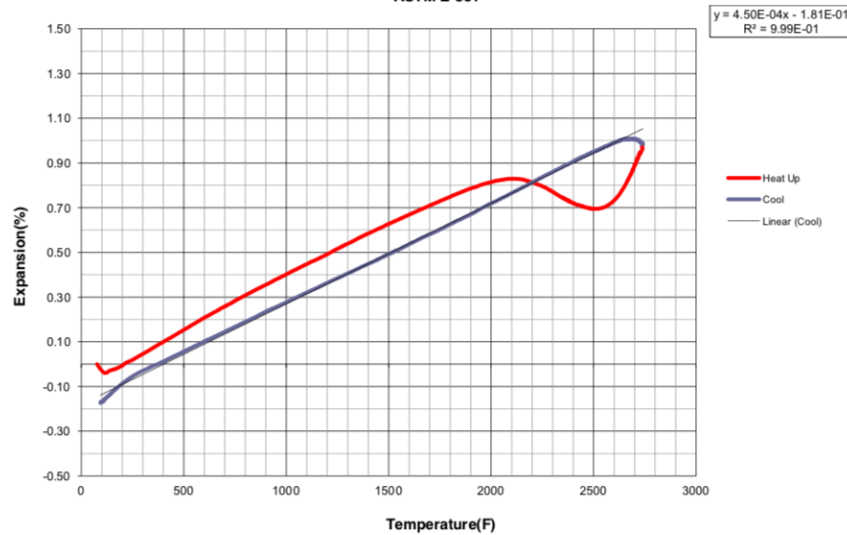
EC CRM

Thermal Conductivity

SUPPLIER: Reno
SAMPLE: 19-104 B
FIRING HISTORY: DRIED

RENO REFRACTORIES
ORTON 1600 C DILATOMETER
Thermal Expansion Analysis
ASTM E-831

HEATING RATE: 3C/Min
ATMOSPHERE: Air
COMMENTS:



OPERATOR: THP
DATE: 8/22/2019

EC CRM

ORTON#: 3

Thermal Expansion Coefficient

The data presented represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specification purposes.

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